United States
Department of
Agriculture

Soil
Conservation
Service

Salt Lake City
Utah

WATER SUPPLY OUTLOOK FOR UTAH

in Cooperation with Utah State Department of Natural Resources

January 1, 1985

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent of surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1,900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 510, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	Room 129, 2221 East Northern Lights Blvd., Anchroage, Alaska 99504
Arizona	Room 3008, Federal Building, 230 N. First Ave., Phoenix, Arizona 85025
Colorado (N. Mexico)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th St., Boise, Idaho 83702
Montana	P. O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno, Nevada 89505
Oregon	1220 S. W. Third Ave., Portland, Oregon 97204
Utah	4418 Federal Bldg., 125 South State St., Salt Lake City, Utah 84147
Washington	360 U. S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82602

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Snow Surveys Branch, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 -- for British Columbia by the Ministry of the Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia V8V 1X5 -- for Yukon Territory by the Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory Y1A 3V1 -- and for Alberta, Saskatchewan, and N.W.T. by the Water Survey of Canada, Inland Waters Branch, 110-27 Avenue S.W., Calgary, Alberta T3C 1A6.

WATER SUPPLY OUTLOOK FOR UTAH

and

FEDERAL-STATE-PRIVATE COOPERATIVE SNOW SURVEYS

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In Cooperation with

UTAH STATE DEPARTMENT OF NATURAL RESOURCES

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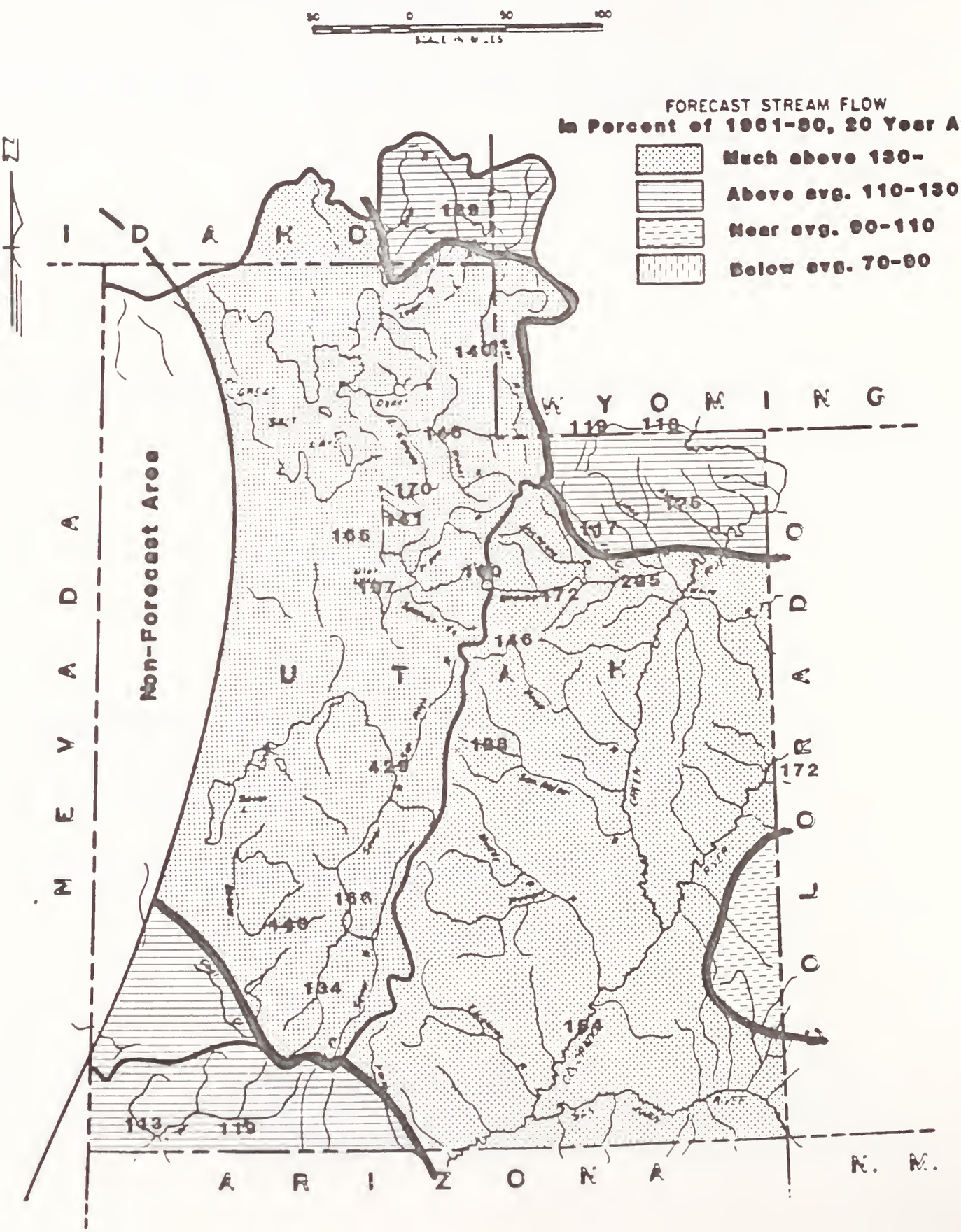
PROSPECTIVE WATER SUPPLIES

Based on Snow Surveys Made on
UTAH and BEAR RIVER WATERSHEDS

January 1, 1985

Approximate Date



WATER SUPPLY OUTLOOK

As of January 1, 1985

* *
* Utah's Water Supply Outlook ranges from near average to well above average. Snow cover varies from below average on the LaSal Mountains to better than twice average on the Ogden and South Fork Sevier. Soil moisture is again wetter than average except on Blue Mountains and reservoir storage is generally above average statewide. Streamflow forecasts range from near average to seven times average on the Lower Sevier. *
* *

SNOW COVER

January 1st snow measurements show better than twice average water content on the South Fork Sevier, Enterprise-New Harmony, and Ogden River Watersheds. Other areas range from 71% of the January 1 average on LaSal Mountains above Moab, 92% on Black's Fork on the North Slope of the Uintahs, 101% on Blue Mountains and Sheep Creek and 122% on Ashley Creek above Vernal.

Most of the state has less snow water content than last year on January 1 except for the southwestern corner of the state which has almost twice as much as a year ago.

A few basins north to south are as follows: Bear 144%, Ogden 203%, Weber 136%, Provo-Utah Lake 150%, Duchesne 159%, Price 143%, San Rafael 194%, Muddy 156%, Fremont 139%, Escalante 146%, Lower Sevier 142%, Upper Sevier 226%, Beaver 159%, and Virgin 193% of the January 1, 20 year average (1961-1980).

PRECIPITATION

Precipitation at mountain stations for the October-December period ranges from about 40% below average on the east end of the Uintahs to better than twice average on the head of the San Rafael.

SOIL MOISTURE

Watershed soils are wetter than average again this year except on the east end of the Uintahs and in the southeastern part of the state.

RESERVOIR STORAGE

Storage in 24 key reservoirs in Utah is now 149% of the January average and 92% of useable capacity. Many reservoirs are already releasing water to make space for spring runoff.

STREAMFLOW FORECASTS

Streamflow forecasts for the snow melt runoff period range from 109% of average on Mill Creek near Moab to 720% for the Sigurd to Gunnison reach of the Lower Sevier River. Most forecasts range from 130 to 200% of average except for the Upper Green tributaries and the southwestern corner of the state (Virgin, Coal Creek drainages) which are 110 to 113% and some forecasts on the Lower Sevier which are expected to be 4 to 7 times average.

All forecasts are based on the assumption of average precipitation and temperature for the remainder of the spring runoff period.

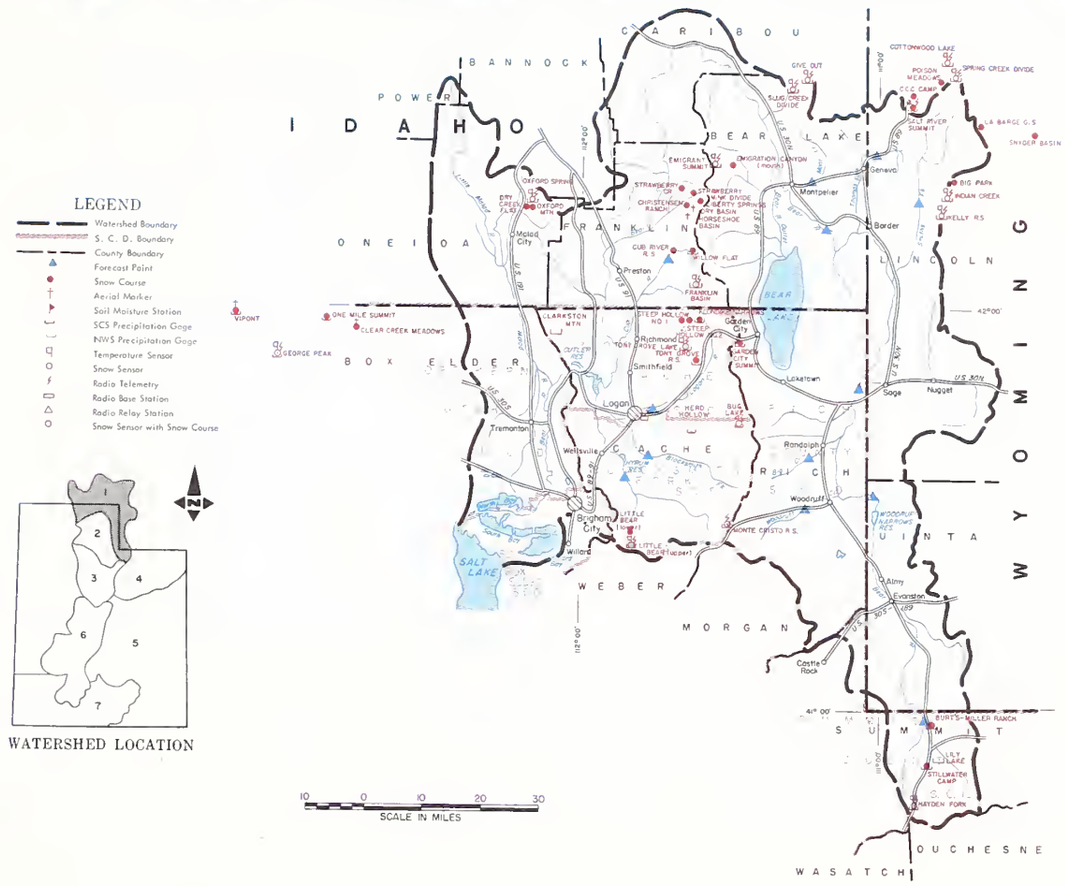
RESERVOIR STORAGE (Thousand Acre Feet) END OF MONTH

Basin or Stream	RESERVOIR	Usable Capacity	Usable Storage		
			This Year	Last Year	Average+
GREAT BASIN					
Bear River	Bear Lake	1421.0	1095.3	1135.0	973.3
	Woodruff Narrows	57.3	57.8	47.8	--
	Woodruff Creek	4.0	2.5[e]	4.0	--
Beaver River	Minersville (RkyFd)	26.0	22.2	23.8	9.3
Little Bear	Hyrum	15.3	10.3	10.4	10.0
	Porcupine	11.3	3.9	2.9	2.9[b]
Ogden	Causey	6.9	5.2	1.1	2.1[b]
	Pineview	110.1	74.0	59.7	50.0b
Provo	Deer Creek	149.7	123.3	133.6	93.5
Settlement Creek	Settlement Creek	1.2	0.0[e]	0.8	0.6[b]
	Vernon Creek	0.6	0.0	0.6	0.4[b]
Sevier River	Gunnison	18.2	15.8	15.0	9.5[b]
	Otter Creek	52.5	49.3	50.3	23.8
	Piute	71.8	59.1	69.2	29.3
	Sevier Bridge	236.0	201.4	229.0	87.0
	Panguitch Lake	22.3		--	--
Spanish Fork	Strawberry	270.0	271.7	271.7	136.7
Utah Lake	Utah Lake	883.9	1155.4	1232.5	601.6
Weber	East Canyon	48.1	46.6	31.4	33.3[b]
	Echo	73.9	69.0	37.8	41.4
	Lost Creek	20.0	16.9	10.4	12.7[b]
	Rockport	60.9	48.0	52.4	34.1
	Willard Bay	193.3	168.2	146.7	133.2[b]
COLORADO R. BASIN					
Ashley Creek	Steinaker	33.3	29.5	22.5	18.2[b]
	Red Fleet	26.0	18.8	19.0	--
Colorado	Blue Mesa	829.5	664.6	598.0	--
	Lake Powell	25002.0	22605.0	22700.0	--
Green	Flaming Gorge	3749.0	3373.0	3450.0	--
Lakefork	Moon Lake	35.8	24.8	27.1	13.6
Price River	Scofield	65.8	47.0	46.2	30.3
San Juan	Navajo	1696.0	1535.6	1547.0	--
	Ken's Lake	2.3	0.0	1.9	--
San Rafael	Huntington North	3.9	4.1	2.8	2.0[b]
	Joe's Valley	54.6	50.0	40.9	42.7[b]
	Mill Site	16.7	9.3	11.2	3.0[b]
Strawberry	Starvation	165.3	124.2	118.0	105.2[b]
	Soldier Creek	951.4	298.4	82.0	--
Uintah	Bottle Hollow	11.3	11.1	11.3	10.1[b]

a - Partly estimated
b - Average of past record in average period - less than 20 years
+ - 1961-80 20 year average period

WATER SUPPLY OUTLOOK
BEAR RIVER BASIN in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE
UTAH STATE DEPARTMENT OF NATURAL RESOURCES



JANUARY 1, 1985

THE WATER SUPPLY OUTLOOK IS ABOVE AVERAGE

SNOW COVER ranges from 140% of average on the Lower Bear River to 184% on the Logan by itself. The Upper Bear is 153% of the January 1 average and snow cover is about 1/2 to 2/3 as much this year on Bear River as last year at this time.

PRECIPITATION at mountain stations in the Upper Bear averaged 101% of the 20 year average for the October-December period and the Lower Bear averaged 127% of average for the fall period.

SOIL MOISTURE is near average on the Upper Bear and slightly above average on the Lower Bear.

RESERVOIR STORAGE is above average in Bear Lake and Woodruff Narrowns and near average at Hyrum, Porcupine and Woodruff Creek.

STREAMFLOW FORECASTS range from 112% on Smith and Thomas Forks to 208% on Big Creek. Bear River forecasts are as follows: at State Line 133%, at Woodruff 140%, at Randolph 154% and at Harer 129% of average. The Logan River is forecast 155%, Blacksmith Fork 176%, Cub River 120% and Little Bear 150% of average.

USDA-SCS-FORT WORTH, TEXAS 1983 M7-OL-22027-I

BEAR RIVER BASIN IN UTAH

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR FORECAST* Thousand Acre Feet	THIS YEAR FORECAST* Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year 3	PAST RECORD THOUSAND ACRE FEET Average +
BEAR RIVER					
Bear nr UT-Wyo. State Line	146	133	Apr-July		110
Bear nr Woodruff 1/	195	140	Apr-July		139
Woodruff Crk nr Woodruff, UT	23	133	Apr-July		17.3
Big Creek nr Randolph, UT	11	208	Apr-July		5.3
Bear nr Randolph 1/	170	154	Apr-July		110
Thomas Fork nr ID-WY State Ln	39	112	Apr-Sept		35
Smith's Fork nr Border, WY	133	112	Apr-Sept		119
Bear at Harer, Idaho 1/	400	129	Apr-Sept		310
Logan nr Logan 1/	180	155	Apr-July		116
Blacksmith Fork nr Hyrum	90	176	Apr-July		51
Little Bear nr Paradise	57	150	Apr-June		38
Cub River nr Preston, ID	62	120	Apr-July		52

SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR AS A PERCENT OF Last Year	THIS YEAR AS A PERCENT OF Average +
BEAR RIVER	12	60	144
UPPER BEAR RIVER	4	70	153
LOWER BEAR RIVER	8	56	140
LOGAN RIVER	4	73	184

1 - Observed flow corrected for change in storage and diversions
2 - Inflow record as computed by U. S. Bureau of Reclamation
3 - Provisional flows - Subject to Correction
a - Partly estimated
b - Average of all past record - less than 20 years
e - Maximum mean daily peak flow
+ - 1961-80 20 year Average Period
* - Forecast in cooperation with National Weather Service

RESERVOIR STORAGE (Thousand Acre Feet)

BASIN OR STREAM	RESERVOIR	Useable Capacity	USEABLE STORAGE This Year	USEABLE STORAGE Last Year	USEABLE STORAGE Average +
BEAR RIVER	Bear Lake	1421.0	1095.3	1135.0	973.3
	Woodruff Narrows	55.8	57.8	47.8	--
	Woodruff Creek	3.5	2.5	4.0	--
LITTLE BEAR	Hyrum	15.3	10.3	10.4	10.0
	Porcupine	11.3	3.9	2.9	2.9[b]

PEAK FLOWS [e]

FORECAST POINT	PEAK FLOW (SECOND FEET) Forecast Range	PEAK FLOW (SECOND FEET) Average +
Bear nr. Ut.-Wyo. Stateline	To Begin Feb. 1	1506
Woodruff Creek nr Woodruff		253
Big Creek nr Randolph		48[b]
Logan River nr Logan		980
Little Bear nr Paradise		519

SNOW

DRAINAGE BASIN and/or SNOW COURSE NAME	THIS YEAR Date of Survey	THIS YEAR Snow Depth (Inches)	THIS YEAR Water Content (Inches)	PAST RECORD Water Content (Inches) Last Year	PAST RECORD Water Content (Inches) Average +
Burts-Miller Ranch	12/31	16	2.8	4.4	2.3[b]
Cub River R.S.	12/27	21	5.0	11.2	3.5[a]
Emigrant Summit	12/26	43	11.4	21.1[a]	9.6[a]
Franklin Basin	12/27	50	15.9	20.7	7.5[b]
Garden City Summit	12/29	45	11.5	15.6	7.3
Hayden Fork	12/31	36	8.5	12.5	5.6[b]
Klondike Narrows	12/29	54	14.0	17.0	7.7

SNOW

DRAINAGE BASIN and/or SNOW COURSE NAME	THIS YEAR Date of Survey	THIS YEAR Snow Depth (Inches)	THIS YEAR Water Content (Inches)	PAST RECORD Water Content (Inches) Last Year	PAST RECORD Water Content (Inches) Average +
Little Bear Lower	12/27	31	8.5	12.7	3.5[b]
Little Bear Upper	12/27	36	9.6	15.5	4.2[b]
Monte Cristo	12/26	52	16.0	21.9	9.7[b]
Salt River Summit				9.8	6.3
Stillwater Camp	12/31	28	5.8	8.3	4.0[b]
Tony Grove R.S.	12/27	34	8.7	15.3	4.6

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
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WATER SUPPLY OUTLOOK

WEBER-OGDEN WATERSHEDS in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE
UTAH STATE DEPARTMENT OF NATURAL RESOURCES

JANUARY 1, 1985

THE WATER SUPPLY OUTLOOK IS ABOVE AVERAGE

SNOW COVER ranges from 136% of the January 1 average on the Weber to 203% on the Ogden. These figures are 30 to 35% less than last year at this time.

PRECIPITATION at mountain stations for the fall period October through December was 211% of the 20 year average on the Ogden Basin and 164% on the Weber Basin.

SOIL MOISTURE is well above average again this season.

RESERVOIR STORAGE is above average and 25 to 30% above last year at this time.

STREAMFLOW FORECASTS range from 128% of the April-June average for the Weber near Oakley to 200% for East Canyon Creek near Morgan.

The Ogden River is forecast 161% for the South Fork and 160% of average for Pineview Inflow. Weber River forecasts are as follows: 128% at Oakley, 133% for Rockport Inflow, 135% near Coalville, 148% for Echo Inflow, and 137% at Gateway. Chalk Creek is forecast 168%, Lost Creek 192%, Hardscrabble 173% and Farmington Creek 150% of average.

USDA-SCS-FORT WORTH, TEXAS 1983 M7-OL-22027-2

WEBER-OGDEN WATERSHEDS IN UTAH

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR FORECAST * Thousand Acre Feet	THIS YEAR FORECAST * Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year 3	PAST RECORD THOUSAND ACRE FEET Average †
WEBER-OGDEN RIVERS					
Weber nr Oakley	130	128	Apr-June		102
Rockport Reservoir Inflow 1/	148	133	Apr-June		111
Chalk Creek at Coalville	60	168	Apr-June		36
Weber nr Coalville 1/	160	135	Apr-June		119
Lost Creek nr Croydon, UT 1/	30	192	Apr-June		15.6
East Canyon Creek nr Morgan 1/	50	200	Apr-June		25
Hardscrabble Crk nr Portervill	32	173	Apr-June		18.4
S. Fork Ogden nr Huntsville1/	92	161	Apr-June		57
Pineview Reservoir Inflow 1/	184	160	Apr-June		115
Echo Reservoir Inflow 2/	215	148	Apr-June		145
Weber at Gateway 1/	411	137	Apr-June		300
JORDAN RIVER & SALT LAKE					
Farmington Crk nr Farmington	12.3	150	Apr-July		8.2

SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR AS A PERCENT OF Last Year	THIS YEAR AS A PERCENT OF Average †
OGDEN RIVER	6	64	203
WEBER RIVER	9	72	136

1 - Observed flow corrected for change in storage and diversions
2 - Inflow record as computed by U. S. Bureau of Reclamation
3 - Provisional flows - Subject to Correction
a - Partly estimated
b - Average of all past record - less than 20 years
e - Maximum mean daily peak flow
+ - 1961-80 20 year Average Period
* - Forecast in cooperation with National Weather Service

RESERVOIR STORAGE (Thousand Acre Feet)

BASIN OR STREAM	RESERVOIR	Useable Capacity	USEABLE STORAGE This Year	USEABLE STORAGE Last Year	USEABLE STORAGE Average †
OGDEN	Causey	6.9	5.2	1.1	2.1[b]
	Pineview	110.1	74.0	59.7	50.0[b]
WEBER	East Canyon	48.1	46.6	31.4	33.3[b]
	Echo	73.9	69.0	37.8	41.4
	Lost Creek	20.0	16.9	10.4	12.7[b]
	Rockport	60.9	48.0	52.4	34.1
	Willard Bay	193.3	168.2	146.7	133.2[b]

PEAK FLOWS e

FORECAST POINT	PEAK FLOW (SECOND FEET) Forecast Range	PEAK FLOW (SECOND FEET) Average †
South Fork Ogden nr Huntsville	To Begin Feb. 1	763
Chalk Creek nr Coalville		510
Weber nr Oakley		1540

SNOW

DRAINAGE BASIN and/or SNOW COURSE NAME	THIS YEAR Date of Survey	THIS YEAR Snow Depth (Inches)	THIS YEAR Water Content (Inches)	PAST RECORD Water Content (Inches) Last Year	PAST RECORD Water Content (Inches) Average †
Beaver Creek R.S.	12/30	24	5.5	8.2	3.7
Beaver Creek-Skunk Creek	12/26	27	9.3	13.5	4.8[b]
Ben Lomond Peak	12/29	82	26.5	42.2	12.6[b]
Ben Lomond Trail	12/27	51	15.6	25.8	5.5[b]
Chalk Creek #1	12/31	55	14.3	16.9	8.8[b]
Chalk Creek #2	12/31	39	8.9	11.5	6.1[b]
Chalk Creek #3	12/31	23	4.9	6.5	3.5[b]
Dry Bread Pond	12/26	39	12.4	18.5	6.8[b]

SNOW

DRAINAGE BASIN and or SNOW COURSE NAME	THIS YEAR Date of Survey	THIS YEAR Snow Depth (Inches)	THIS YEAR Water Content (Inches)	PAST RECORD Water Content (Inches) Last Year	PAST RECORD Water Content (Inches) Average †
Horse Ridge	12/26	49	15.0	21.4	7.6[b]
Lost Creek Reservoir	12/26	19	4.1	8.0	1.9[b]
Monte Cristo	12/26	52	16.0	21.9	9.7[b]
Parleys Canyon Summit	12/28	43	12.6	18.0	7.7
Sagebrush Flat	12/26	19	4.8	9.6	2.2[b]
Smith & Morehouse	12/31	33	9.2	11.6	5.3
Trial Lake	12/30	55	14.0	19.2	10.7

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SOIL CONSERVATION SERVICE
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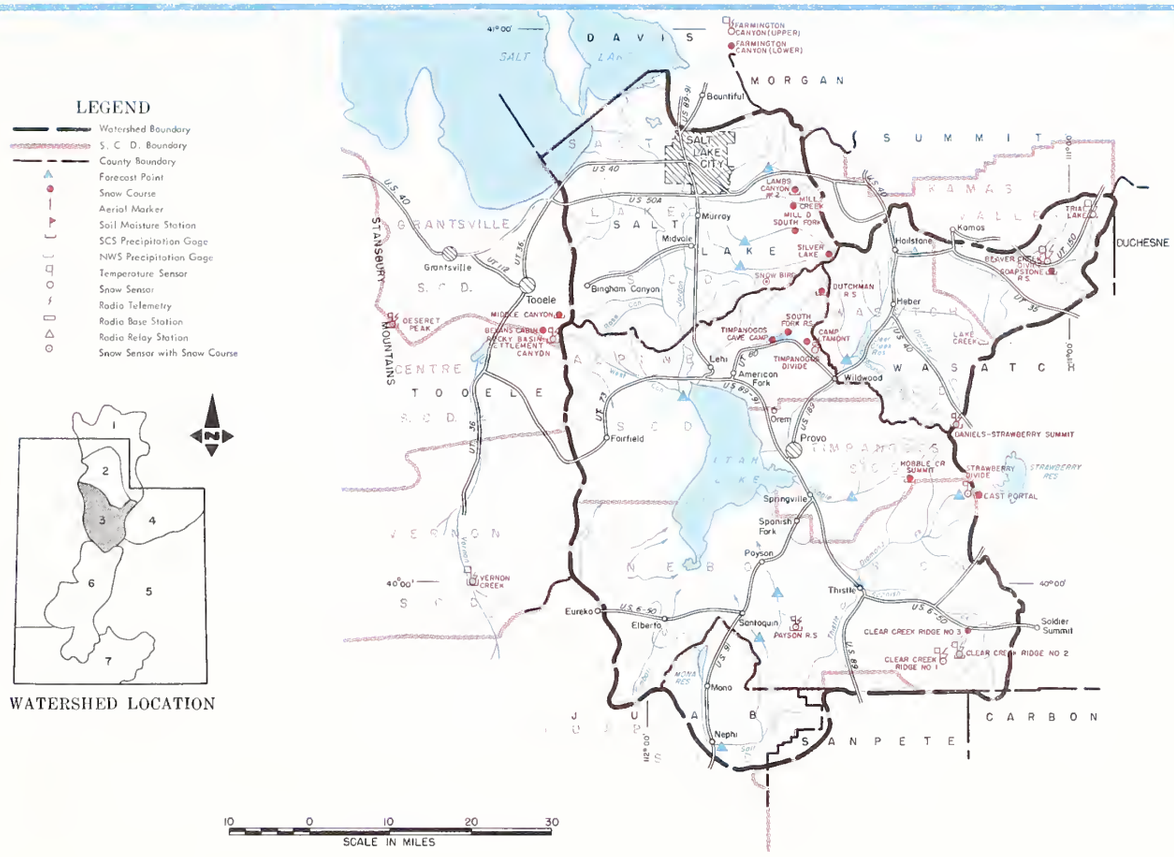
WATER SUPPLY OUTLOOK

UTAH LAKE, JORDAN RIVER and TOOELE VALLEY WATERSHEDS in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE
UTAH STATE DEPARTMENT OF NATURAL RESOURCES



JANUARY 1, 1985

THE WATER SUPPLY OUTLOOK IS ABOVE AVERAGE

SNOW COVER ranges from 150% of the January 1 average on the Provo River-Utah Lake watershed to 170% for Tooele Valley and 171% for Jordan River and Salt Lake Front. This is about 25 to 30% less snow water content than last year at this time.

PRECIPITATION at mountain stations ranges from 124 to 150% of the October-December average.

SOIL MOISTURE is above average for the third year.

RESERVOIR STORAGE is above average except in Settlement Canyon and Vernon Creek. All reservoirs have less storage than last year at this time except Strawberry which is still full and spilling into Soldier Creek Reservoir.

STREAMFLOW FORECASTS range from 132% of the April-July average for the Provo at Hailstone to 197% for Utah Lake Inflow. The Provo below Deer Creek Dam is forecast 147% of average, Payson Creek 153%, Spanish Fork 158%, Hobble Creek 179%, and American Fork 145% of average.

Streams along the Salt Lake Front are forecast 141% for Little Cottonwood, 162% for Big Cottonwood, 169% for Mill Creek, 170% for Parley's Creek, 186% for Emigration Creek, and 155% for City Creek.

Tooele Valley streams are forecast 165% of average for Settlement and South Willow Creeks and 162% for Vernon Creek.

USDA-SCS-FORT WORTH, TEXAS 1983 M7-OL-22027-3

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR FORECAST* Thousand Acre Feet	THIS YEAR FORECAST* Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year 3	PAST RECORD THOUSAND ACRE FEET Average †
PROVO RIVER AND UTAH LAKE					
Provo nr Hailstone 1/	140	132	Apr-July		106
Provo below Deer Creek Dam1/	176	147	Apr-July		118
American Fork nr American Fk.	45	145	Apr-July		31
Hobble Creek nr Springville	31	179	Apr-July		18.7
Strawberry Reservoir Inflow1/	85	160	Apr-July		53
Spanish Fork at Thistle	63	158	Apr-July		40
Payson Creek nr Payson	9.5	153	Apr-July		6.2
Utah Lake Inflow	470	197	Apr-July		238
JORDAN RIVER & SALT LAKE					
Little Cottonwood Crk nr SLC	54	141	Apr-July		38
Big Cottonwood nr SLC	60	162	Apr-July		37
Parley's Creek nr SLC	25	170	Apr-July		14.8
Mill Creek nr SLC	10.0	169	Apr-July		5.8
Emigration Creek nr SLC	6.9	186	Apr-July		3.7
City Creek nr SLC	12.1	155	Apr-July		7.7
TOOELE VALLEY					
Settlement Crk nr Tooele	3.8	165	Apr-July		2.3
S. Willow Crk nr Grantsville	5.0	165	Apr-July		3.0
Vernon Creek nr Vernon	1.3	162	Apr-June		1.2

SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR AS A PERCENT OF Last Year	THIS YEAR AS A PERCENT OF Average †
PROVO RIVER & UTAH LAKE	8	71	150
JORDAN RIVER & SALT LAKE	5	76	171
TOOELE VALLEY & VERNON CREEK	2	76	170

1 - Observed flow corrected for change in storage and diversions
3 - Provisional flows - subject to correction
a - Partly estimated
b - Average of past record - less than 20 years
+ - 1961-80 20 year average period
e - Maximum mean daily peak flow
* - Forecast in cooperation with National Weather Service

RESERVOIR STORAGE (Thousand Acre Feet)

BASIN OR STREAM	RESERVOIR	Useable Capacity	USEABLE STORAGE This Year	USEABLE STORAGE Last Year	USEABLE STORAGE Average †
SPANISH FORK	Strawberry	270.0	271.7	271.7	136.7
UTAH LAKE	Utah Lake	883.9	1155.4	1232.5	601.6
	Settlement Creek	1.2	0.0e	0.8	0.6b
	Vernon Creek	0.6	0.0	0.6	0.4b
PROVO	Deer Creek	149.7	123.3	133.6	93.5

PEAK FLOWS e

FORECAST POINT	PEAK FLOW (SECOND FEET) Forecast Range	PEAK FLOW (SECOND FEET) Average †
Big Cottonwood nr Salt Lake City	To Begin Feb. 1	442
Little Cottonwood nr Salt Lake City		384
Provo Near Hailstone		2128
Spanish Fork nr Thistle		451b
American Fork nr American Fork		329
Mill Creek nr Salt Lake City		59
Parley's Creek nr Salt Lake City		153
City Creek nr Salt Lake City		75
Emigration		--

SNOW

DRAINAGE BASIN and/or SNOW COURSE NAME	THIS YEAR Date of Survey	THIS YEAR Snow Depth (inches)	THIS YEAR Water Content (inches)	PAST RECORD Water Content (inches) Last Year	PAST RECORD Water Content (inches) Average †
Bevans Cabin		NOT MEASURED			
Clear Creek #1	12/26	41	11.0	16.9	7.7b
Clear Creek #2	12/26	35	8.4	12.2	6.2b
Clear Creek #3	12/26	21	5.1	8.3	3.5b
Daniels-Strawberry Summit	12/26	36	9.3	13.5	5.7
Deseret Peak		NOT MEASURED			
Hobble Creek Summit	12/26	37	9.9	16.5	5.9b
Lambs Canyon #2	12/28	44	2.9	16.6	7.4b
Middle Canyon		NOT MEASURED			
Mill Creek	12/27	45	13.3	16.4	7.4b

SNOW

DRAINAGE BASIN and/or SNOW COURSE NAME	THIS YEAR Date of Survey	THIS YEAR Snow Depth (inches)	THIS YEAR Water Content (inches)	PAST RECORD Water Content (inches) Last Year	PAST RECORD Water Content (inches) Average †
Mill D South Fork	12/27	42	13.1	18.4	7.8
Parley's Canyon Summit	12/28	43	12.6	18.0	7.7
Payson R.S.	1/4	39	11.9	18.9	7.7
Rocky Basin-Settlement Canyon	1/1	52a	17.0a	25.4a	12.7a
Silver Lake Brighton	12/27	52	17.3	21.0	10.0
Soapstone R.S.	12/30	30	7.2	11.4	5.4
Timpanogos Divide	1/1	55a	18.3a	15.4a	10.4
Trial Lake	12/30	55	14.0	19.2	10.7
Vernon Creek	1/1	38a	11.3a	11.8	3.9b

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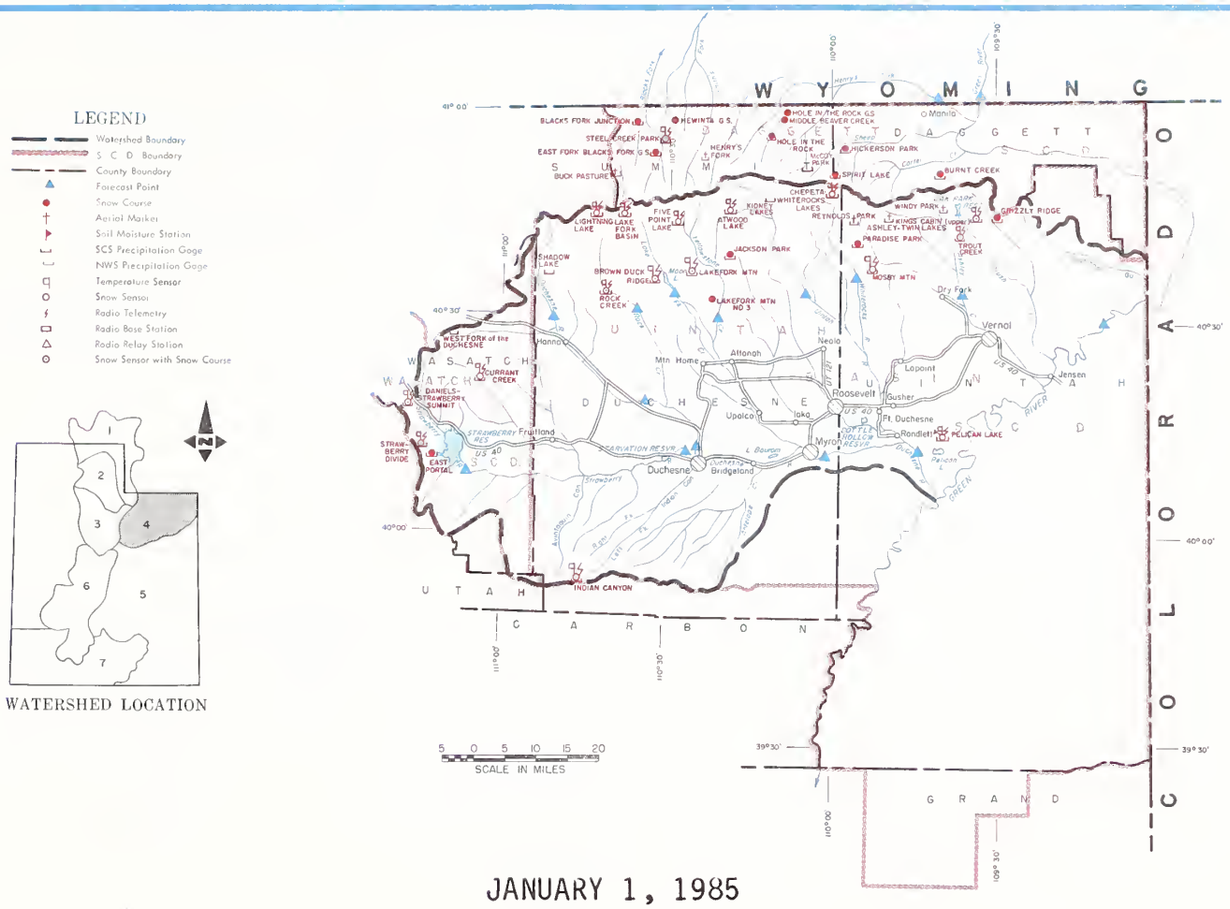
WATER SUPPLY OUTLOOK

UINTAH BASIN and DAGGETT SCD's in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE
UTAH STATE DEPARTMENT OF NATURAL RESOURCES



JANUARY 1, 1985

THE WATER SUPPLY OUTLOOK IS ABOVE AVERAGE

SNOW COVER ranges from 92% of the January 1 average on Black's Fork to 164% of average for Strawberry River. Sheep Creek is 101%, Ashley Creek 122%, Uintah-Whiterocks 143% Lakefork-Yellowstone 146%, and the whole Duchesne Basin 159% of the January 1 average. These basins range 3 to 56% less than last year at this time.

PRECIPITATION at mountain stations for the October-December period was about 150% of average.

SOIL MOISTURE is above average again this season.

RESERVOIR STORAGE is generally above average.

STREAMFLOW FORECASTS range from 112% of the April-July average for Flaming Gorge Inflow to 205% for the Duchesne at Myton.

The Duchesne River is forecast 153% for the West Fork, 143% near Tabiona, 146% at Duchesne and 195% at Randlett.

Currant Creek is forecast 155%, Strawberry River 172%, Rock Creek 132%, Lakefork 117%, Yellowstone 127%, Uintah 128%, and Whiterocks 132%.

Ashley Creek is forecast 125%, Henry's Fork 118%, and Black's Fork 119% of average.

USDA-SCS-FORT WORTH, TEXAS 1983 M17-OL-22027-4

UINTAH BASIN AND DAGGETT SCD's IN UTAH

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR FORECAST * Thousand Acre Feet	THIS YEAR FORECAST * Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year 3	PAST RECORD THOUSAND ACRE FEET Average +
DUCHESNE RIVER					
Duchesne nr Tabiona 1/	150	143	Apr-July		105
Duchesne at Duchesne 1/	276	146	Apr-July		189
Strawberry at Duchesne	100	172	Apr-July		58
Rock Creek nr Mtn. Home	123	132	Apr-July		93
Currant Creek nr Fruitland	31	155	Apr-July		20
Lakefork below Moon Lake 1/	82	117	Apr-July		70
Yellowstone nr Altonah	83	127	Apr-July		65
Duchesne at Myton 1/	420	205	Apr-July		205
Whiterocks nr Whiterock	74	132	Apr-July		58
Uintah nr Neola	110	128	Apr-July		86
Duchesne at Randlett 1/	500	195	Apr-July		257
West Fork Duchesne at Hanna	40	153	Apr-July		26
FLAMING GORGE TO DUCHESNE RIVER					
Henry's Fork nr Manila	57	118	Apr-Sept		48
Black's Fork nr Millburne	108	119	Apr-July		90
Flaming Gorge Inflow 1/	1400	112	Apr-July		1248
Ashley Creek nr Vernal	64	125	Apr-July		51

SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR AS A PERCENT OF Last Year	THIS YEAR AS A PERCENT OF Average +
DUCHESNE RIVER - TOTAL	9	81	159
LAKEFORK-YELLOWSTONE CREEKS	3	80	146
STRAWBERRY RIVER	3	68	164
UINTAH - WHITEROCKS RIVERS	3	97	143
ASHLEY CREEK	3	80	122
BLACK'S FORK	4	54	92
SHEEP CREEK	3	48	101

1 - Observed flow corrected for change in storage and diversions
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a - Partly estimated
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e - Maximum mean daily peak flow
+ - 1961-80 20 year Average Period
* - Forecast in cooperation with National Weather Service

RESERVOIR STORAGE (Thousand Acre Feet)

BASIN OR STREAM	RESERVOIR	Usable Capacity	USEABLE STORAGE This Year	USEABLE STORAGE Last Year	USEABLE STORAGE Average +
ASHLEY CREEK	Red Fleet	26.0	18.8	19.0	--
	Steinaker	33.3	29.5	22.5	18.2[b]
GREEN RIVER	Flaming Gorge	3749.0	3373.0	3450.0	--
LAKE FORK	Moon Lake	35.8	24.8	27.1	13.6
STRAWBERRY	Currant Creek	15.5	6.9	5.2	--
	Starvation	165.3	124.2	118.0	105.2[b]
	Soldier Creek	951.4	298.4	82.0	--
UINTAH	Bottle Hollow	11.3	11.1	11.3	10.1

PEAK FLOWS e

FORECAST POINT	PEAK FLOW (SECOND FEET) Forecast Range	PEAK FLOW (SECOND FEET) Average +
Strawberry at Duchesne	To Begin Feb. 1	675
Ashley Creek nr Vernal		966
Rock Creek nr. Mtn. Home		1415

SNOW

DRAINAGE BASIN and/or SNOW COURSE NAME	THIS YEAR Date of Survey	THIS YEAR Snow Depth (Inches)	THIS YEAR Water Content (Inches)	PAST RECORD Water Content (Inches) Last Year	PAST RECORD Water Content (Inches) Average +
Brown Duck Ridge	12/30	52	12.5	15.8	7.2[a]
Burnt Creek	12/20	8	1.3	4.7	2.4[b]
Currant Creek	12/26	32	7.7	9.6	3.9[b]
Daniels-Strawberry	12/26	36	9.3	13.5	5.7
Grizzly Ridge	12/20	27	4.3	5.1	4.3[b]
Hewinta G. S.	12/31	24	4.5	8.8	3.5[b]
Hickerson Park	12/30	18	3.0	7.1	1.9[b]
Jackson Park	12/30	41	8.1	9.6	6.4a
Kings Cabin Upper	12/30	27	5.5	7.7	4.3[b]

SNOW

DRAINAGE BASIN and or SNOW COURSE NAME	THIS YEAR Date of Survey	THIS YEAR Snow Depth (Inches)	THIS YEAR Water Content (Inches)	PAST RECORD Water Content (Inches) Last Year	PAST RECORD Water Content (Inches) Average +
Lakefork Mountain #1	12/30	34	6.9	8.8	5.2[a]
Mosby Mountain	12/30	31	6.4	5.8	4.2[b]
Paradise Park	12/30	41	8.7	8.4	5.6[b]
Rock Creek Ranch	12/30	32	7.7	6.5	3.3[a]
Spirit Lake	12/30	26	5.2	7.9	5.1[b]
Steel Creek Park	12/31	37	8.0	13.0	6.3[b]
Strawberry Divide	12/28	47	11.7	18.8	7.9[b]
Trout Creek	12/30	31	5.9	6.6	4.2b

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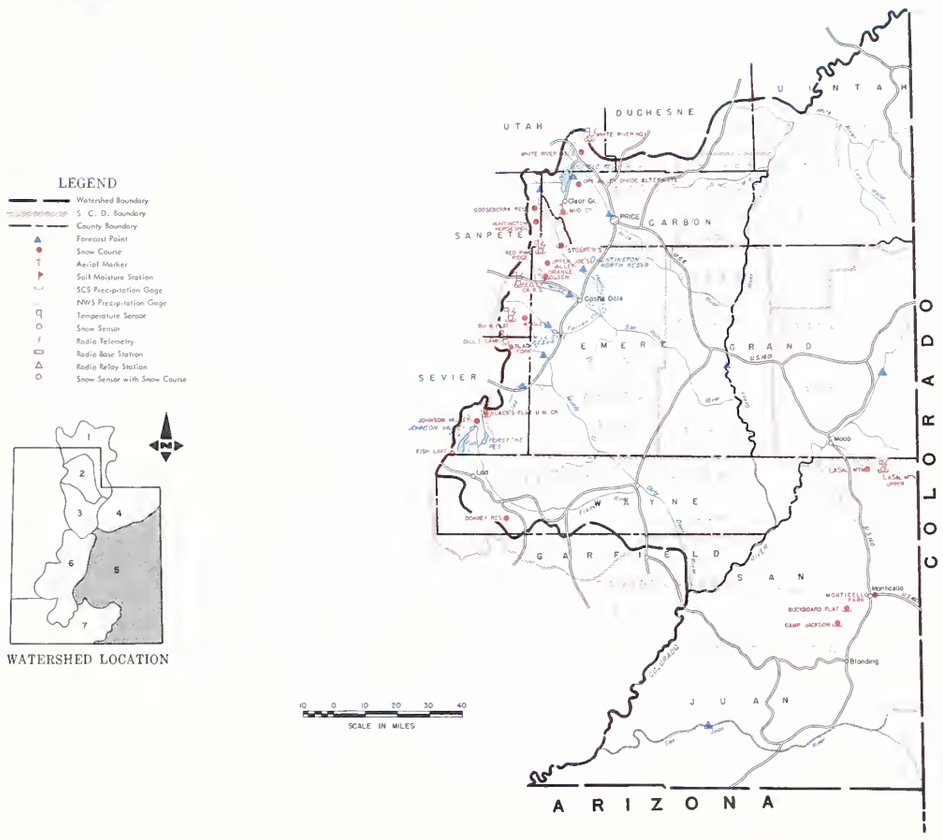
WATER SUPPLY OUTLOOK

CARBON, EMERY, WAYNE, GRAND and SAN JUAN COUNTIES in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE
UTAH STATE DEPARTMENT OF NATURAL RESOURCES



JANUARY 1, 1985

THE WATER SUPPLY OUTLOOK IS ABOVE AVERAGE

SNOW COVER ranges from 71% of the January 1 average on the LaSal Mountains to 194% on the San Rafael tributaries. Blue Mountains are about average, Price River is 143%, Muddy Creek 156%, and Fremont River 139% of average. All of these areas have 3 to 50% less snow water content than last year at this time.

PRECIPITATION at mountain stations ranged from less than average on the LaSal Mountains to about 1 1/2 to 2 /2 times average on the San Rafael drainage.

SOIL MOISTURE is above average except on the LaSal and Blue Mountains.

RESERVOIR STORAGE is above average.

STREAMFLOW FORECASTS range from 109% of the April-July average for Mill Creek near Moab to 172% for the Colorado near Cisco.

Scofield Inflow is forecast 146%, Price at Heiner 170%, Huntington Creek 151%, Cottonwood Creek 138%, Ferron Creek 135%, Muddy Creek 140%, and Seven Mile Creek 123% of average.

Green River is forecast 125% and the San Juan 140% for the April-July period.

USDA-SCS-FORT WORTH, TEXAS 1983 M7-OL-22027-5

CARBON, EMERY, WAYNE, GRAND AND SAN JUAN COUNTIES IN UTAH

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR FORECAST * Thousand Acre Feet	THIS YEAR FORECAST * Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year 3	PAST RECORD THOUSAND ACRE FEET Average †
PRICE RIVER					
Gooseberry Crk nr Scofield	15.0	140	Apr-July		10.7
Scofield Reservoir Inflow	55	146	Apr-July		38
Price nr Heiner 1/	108	170	Apr-July		63
SAN RAFAEL RIVER					
Huntington Crk nr Huntington	74	151	Apr-July		49
Cottonwood Crk nr Orangeville	65	138	Apr-July		47
Ferron Creek nr Ferron	50	135	Apr-July		37
MUDDY CREEK					
Muddy Creek nr Emery	26	140	Apr-July		18.5
UPPER COLORADO BASIN					
Colorado nr Cisco, UT	5250	172	Apr-July		3046
Green at Green River, UT	3760	125	Apr-July		3016
Mill Creek nr Moab	6.0	109	Apr-July		5.5
Navajo Reservoir Inflow	950	130	Apr-July		684
San Juan nr Bluff, UT	1400	140	Apr-July		995
FREMONT RIVER					
Seven Mile Crk nr Fish Lake	8.0	123	Apr-July		6.5[b]

SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR AS A PERCENT OF Last Year	THIS YEAR AS A PERCENT OF Average †
PRICE RIVER	3	57	143
SAN RAFAEL RIVER	8	61	194
FREMONT RIVER	3	51	139
LASAL MOUNTAINS	2	63	71
BLUE MOUNTAINS	2	97	101
MUDDY RIVER	2	62	156

1 - Observed flow corrected for change in storage and diversions
2 - Inflow record as computed by U. S. Bureau of Reclamation
3 - Provisional flows - Subject to Correction
a - Partly estimated
b - Average of all past record - less than 20 years
e - Maximum mean daily peak flow
+ - 1961-80 20 year Average Period
* - Forecast in cooperation with National Weather Service

RESERVOIR STORAGE (Thousand Acre Feet)

BASIN OR STREAM	RESERVOIR	Useable Capacity	USEABLE STORAGE This Year	USEABLE STORAGE Last Year	USEABLE STORAGE Average †
PRICE RIVER	Scofield	65.8	47.0	46.2	30.3
SAN RAFAEL	Huntington North	3.9	4.1	2.8	2.0[b]
	Joe's Valley	54.6	50.0	40.9	42.7[b]
	Mill Site	16.7	9.3	11.2	3.0
SAN JUAN	Navajo	1696.0	1535.6	1547.0	--
	Kens Lake	2.3	0.0	1.9	--

PEAK FLOWS[e]

FORECAST POINT	PEAK FLOW (SECOND FEET) Forecast Range	PEAK FLOW (SECOND FEET) Average †
Ferron Creek near Ferron	To Begin Feb. 1	444
Muddy Creek near Emery		168
Huntington Cr. near Huntington		516[b]

SNOW

DRAINAGE BASIN and/or SNOW COURSE NAME	THIS YEAR Date of Survey	THIS YEAR Snow Depth (Inches)	THIS YEAR Water Content (Inches)	PAST RECORD Water Content (Inches) Last Year	PAST RECORD Water Content (Inches) Average †
Buck Flat	12/30	41	11.7	19.0	6.7[b]
Buckboard Flat	12/19	31	5.9	5.9	7.1[b]
Camp Jackson	12/19	35	8.0	8.3	6.6[b]
Dills Camp	12/30	32	8.4	12.8	5.2[b]
Dry Valley Divide Alternate	12/26	30	2.4	10.5	6.7[b]
Huntington-Horseshoe	12/29	42	13.2	25.2	7.8[b]
Indian Canyon	12/28	35	8.0	8.9	5.3
LaSal Mtn. Upper	12/20	32	5.4	9.6	6.9[b]
Mammoth-Cottonwood R.S.	12/29	50	14.8	22.6	8.1

SNOW

DRAINAGE BASIN and/or SNOW COURSE NAME	THIS YEAR Date of Survey	THIS YEAR Snow Depth (Inches)	THIS YEAR Water Content (Inches)	PAST RECORD Water Content (Inches) Last Year	PAST RECORD Water Content (Inches) Average †
Monticello City Park	12/21	10	2.0	2.8	1.8[b]
Mud Creek	12/29	35	8.4	14.3	5.7
Red Pine Ridge	12/30	41	11.2	18.8	6.7[b]
Seeley Creek	12/30	40	13.1	21.7	4.6[b]
Stuart R.S.	12/29	24	6.2	11.1	3.1[b]
Upper Joe's Valley	12/30	34	8.6	12.1	4.2[b]
White River #1	12/26	31	7.6	13.6	5.3[b]
White River #3	12/26	21	5.1	8.8	3.7[b]
Wrigley Creek	12/30	30	7.4	10.6	4.3[b]

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WATER SUPPLY OUTLOOK

SEVIER RIVER BASIN including BEAVER RIVER in UTAH

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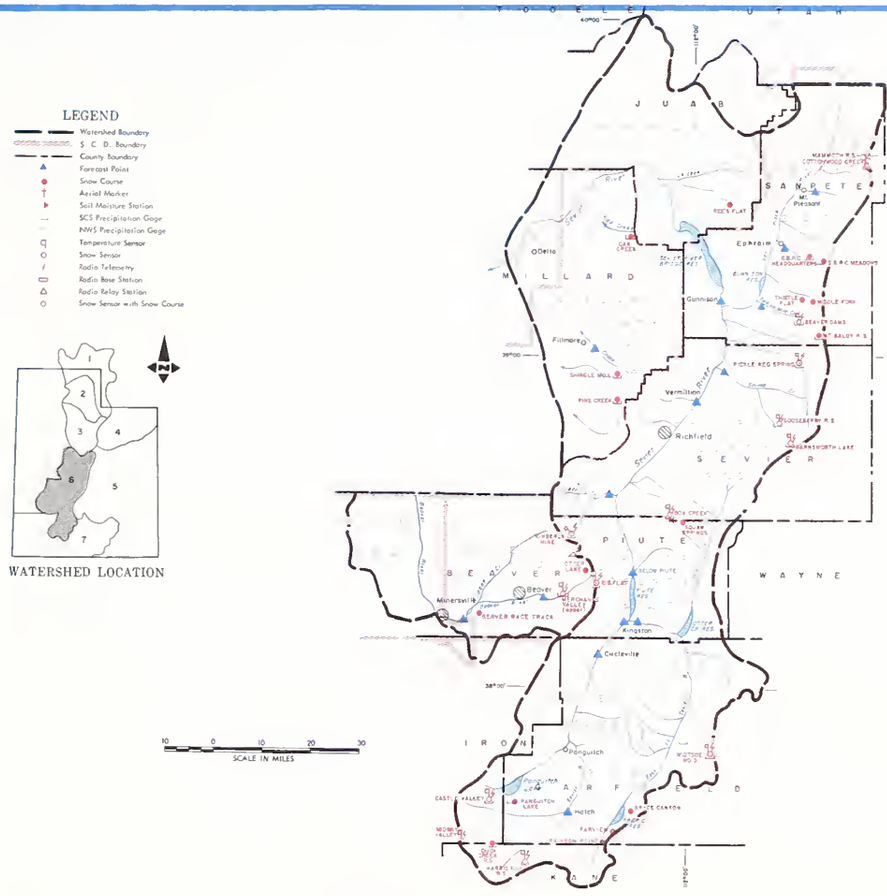
UTAH STATE DEPARTMENT OF NATURAL RESOURCES



JANUARY 1, 1985

THE WATER SUPPLY OUTLOOK IS ABOVE AVERAGE TO WELL ABOVE AVERAGE

SNOW COVER ranges from 142% of the January 1 average on the Lower Sevier to 226% on the South Fork. Beaver River is 159%, East Fork Sevier 146%, and 111% on Chalk Creek above Fillmore. Oak Creek is 128%, Chicken Creek 150% and Salt Creek 154% of the January 1 average.

PRECIPITATION at mountain stations for the October-December period has ranged from about 135 to 185% of average.

SOIL MOISTURE is above average.

RESERVOIR STORAGE is above average and 85% of useable capacity.

STREAMFLOW FORECASTS range from 122% of the April-July average for Chalk Creek near Fillmore to 720% for Sigurd to Gunnison.

The Sevier is forecast as follows: Hatch 134%, Circleville 171%, Kingston 160%, East Fork 166% and Gunnison 429% of average. Clear Creek is forecast 138%, Antimony 136% and Salina Creek 160%.

Beaver River is forecast 140%, North Creeks 143% and Minersville Inflow 140%.

Chicken Creek is forecast 129%, Oak Creek 125%, Salt Creek 142%, Ephriam Creek 154% and Pleasant Creek 157%.

USDA-SCS-FORT WORTH, TEXAS 1983 M7-OL-22027-6

SEVIER RIVER BASIN INCLUDING BEAVER RIVER IN UTAH

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR FORECAST * Thousand Acre Feet	THIS YEAR FORECAST * Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year 3	PAST RECORD THOUSAND ACRE FEET Average †
SEVIER RIVER					
Sevier at Hatch	64	134	Apr-July		48
Sevier nr Circleville	54	171	Apr-July		38
Sevier nr Kingston	46	160	Apr-July		28
Antimony Crk nr Antimony	14.0	136	Apr-July		10.3
East Fork Sevier nr Kingston1/	28	148	Apr-July		18.9
Sevier below Piute Dam	75	166	Apr-July		45
Clear Crk nr Sevier (abv Div)	26	138	Apr-July		18.9
Sigurd to Gunnison	190	720	Apr-July		26
Kingston to Vermillion Dam	70	156	Apr-June		45
Vermillion Dam to Gunnison	195	551	Apr-June		25
Salina Creek at Salina	19.0	160	Apr-June		11.9
Sevier nr Gunnison	230	429	Apr-July		54
Chalk Creek nr Fillmore	20	122	Apr-July		16.4[b]
Chicken Creek nr Levan	4.5	129	Apr-July		3.5[b]
Oak Cr. nr Oak City	2.0	125	Apr-July		1.6[b]
Ephraim Creek nr Ephraim	23	154	Apr-July		14.9
Pleasant Crk nr Mt. Pleasant	13.5	157	Apr-July		8.6
Salt Creek nr. Nephi	19.1	142	Apr-July		13.5
Beaver nr Beaver	32	140	Apr-July		23
North Creek (Combined)	21	143	Apr-July		14.6[a]
Minersville Inflow	12.5	140	Apr-June		8.9

SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR AS A PERCENT OF Last Year	THIS YEAR AS A PERCENT OF Average †
UPPER SEVIER RIVER			
East Fork Sevier	4	71	146
South Fork Sevier	6	144	226
LOWER SEVIER	12	55	142
BEAVER RIVER	3	56	159

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e - Maximum mean daily peak flow
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RESERVOIR STORAGE (Thousand Acre Feet)

BASIN OR STREAM	RESERVOIR	Useable Capacity	USEABLE STORAGE This Year	USEABLE STORAGE Last Year	USEABLE STORAGE Average †
SEVIER RIVER	Gunnison	18.2	15.8	15.0	9.5[b]
	Otter Creek	52.5	49.3	50.3	23.8
	Piute	71.8	59.1	69.2	29.3
	Sevier Bridge	236.0	201.4	229.0	87.0
	Panguitch Lake	22.3			
BEAVER RIVER	Minersville (Rky Fd)	26.0	22.2	23.8	9.3

PEAK FLOWS e

FORECAST POINT	PEAK FLOW (SECOND FEET) Forecast Range	PEAK FLOW (SECOND FEET) Average †
Beaver River nr Beaver	To Begin Feb. 1	257
Sevier River at Hatch		484
Sevier River nr Kingston		312
Clear Creek nr Sevier		226
Salina Creek nr Salina		285

SNOW

DRAINAGE BASIN and/or SNOW COURSE NAME	THIS YEAR Date of Survey	THIS YEAR Snow Depth (Inches)	THIS YEAR Water Content (Inches)	PAST RECORD Water Content (Inches) Last Year	PAST RECORD Water Content (Inches) Average †
Big Flat	1/3	40	10.9	19.7	6.6[b]
Bryce Canyon	1/2	19	2.7	2.8	2.0
Castle Valley	1/3	34	9.2	9.9	6.0[b]
Duck Creek	1/2	39	9.2	7.7	5.1
Farnsworth Lake	1/2	41	10.4	16.8	7.9
Gooseberry R.S.	1/2	29	6.7	10.7	5.2
Harris Flat	1/2	31	7.5	5.1	3.2
Kimberly Mine	1/3	34	9.3	13.7	6.0

SNOW

DRAINAGE BASIN and or SNOW COURSE NAME	THIS YEAR Date of Survey	THIS YEAR Snow Depth (Inches)	THIS YEAR Water Content (Inches)	PAST RECORD Water Content (Inches) Last Year	PAST RECORD Water Content (Inches) Average †
Long Valley Junction	1/2	27	6.7	3.8	1.9[b]
Merchants Valley Upper	1/3	31	7.9	13.9	5.2[b]
Midway Valley	1/2	56	15.3	12.1	8.3
Oak Creek	1/4	25	6.4	12.4	5.0[b]
Otter Lake	1/3	31	8.1	14.8	5.1[b]
Pickle Keg Springs	12/30	32	8.7	17.1	6.1[b]
Pine Creek	1/3	32	9.1	18.7	6.8[b]
Widtsoe-Escalante #3	1/2	32	7.3	8.1	5.0

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WATER SUPPLY OUTLOOK

EAST GARFIELD, KANE, WASHINGTON and IRON COUNTIES in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE
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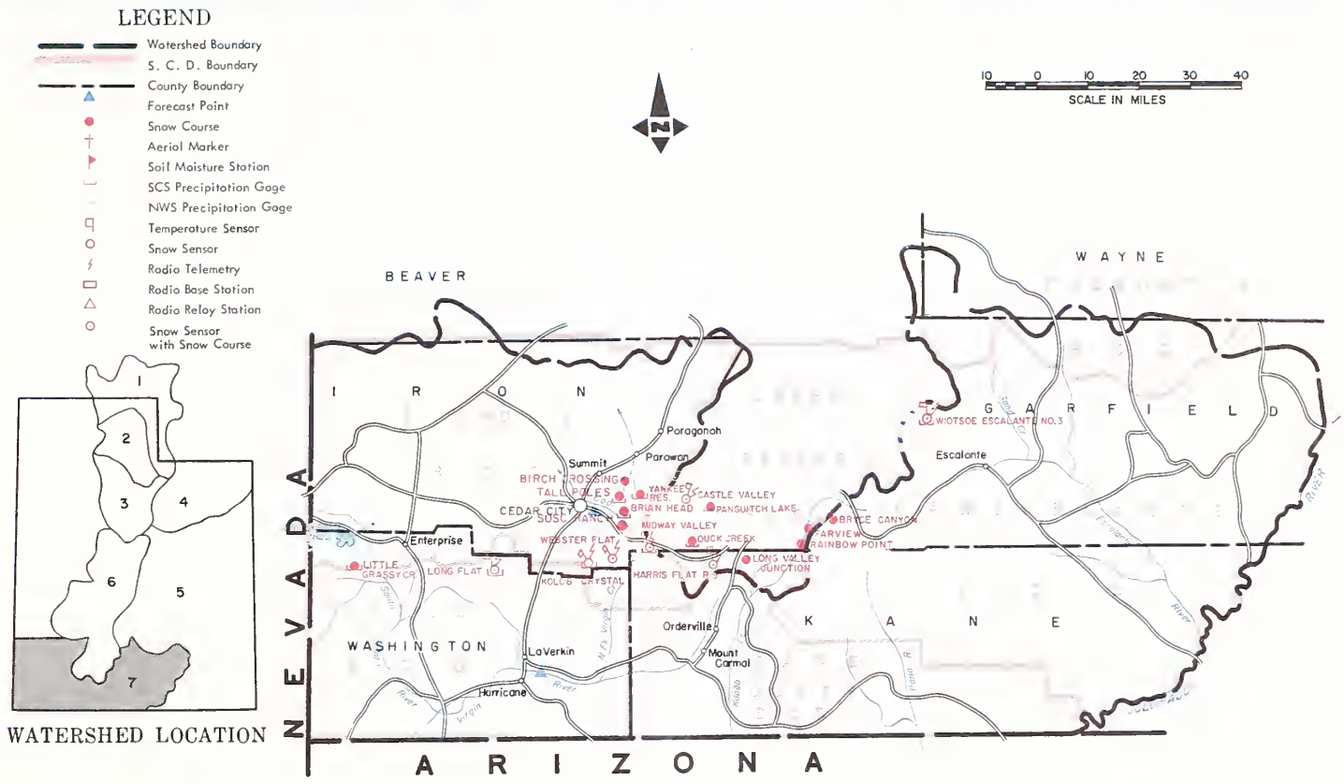

JANUARY 1, 1985

THE WATER SUPPLY OUTLOOK IS NEAR AVERAGE

SNOW COVER ranges from 146% of the January 1 average on Escalante River to 236% on Enterprise-New Harmony drainages. Coal Creek is 181%, Virgin River 193% and Parowan Creek 137% of the January 1 average. Escalante and Parowan have less snow water content than a year ago but Coal Creek and Virgin River have 28 to 41% more and Enterprise-New Harmony area has better than 3 times last year with much more snow at the lower elevations, around 6,000 feet, than last year.

PRECIPITATION at mountain stations ranged from 150 to 250% of average for the October-December period.

SOIL MOISTURE is above average over most of the higher watersheds of the area.

RESERVOIR STORAGE has not been reported for Enterprise and other small reservoirs of the area.

STREAMFLOW FORECASTS range from 113% of average on Santa Clara Creek to 154% for Lake Powell Inflow. Virgin River is forecast 119% of average and Coal Creek 120%.

USDA-SCS-FORT WORTH, TEXAS 1983 M7-OL-22027-7

EAST GARFIELD, KANE, WASHINGTON AND IRON COUNTIES IN UTAH

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR FORECAST * Thousand Acre Feet	THIS YEAR FORECAST * Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year 3	PAST RECORD THOUSAND ACRE FEET Average +
VIRGIN RIVER					
Virgin nr Hurricane	57	119	Apr-June		63
Santa Clara nr Pine Valley	6.0	113	Apr-June		5.3
COAL CREEK					
Coal Creek nr Cedar City	22	120	Apr-July		18.1
UPPER COLORADO					
Lake Powell Inflow	11500	154	Apr-July		7462

SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR AS A PERCENT OF Last Year	THIS YEAR AS A PERCENT OF Average +
COAL CREEK	3	128	181
VIRGIN RIVER	4	141	193
PAROWAN CREEK	4	84	137
ENTERPRISE - NEW HARMONY	2	318	236
ESCALANTE RIVER	1	90	146

1 - Observed flow corrected for change in storage and diversions
2 - Inflow record as computed by U. S. Bureau of Reclamation
3 - Provisional flows - Subject to Correction
a - Partly estimated
b - Average of all past record - less than 20 years
e - Maximum mean daily peak flow
+ - 1961-80 20 year Average Period
* - Forecast in cooperation with National Weather Service

RESERVOIR STORAGE (Thousand Acre Feet)

BASIN OR STREAM	RESERVOIR	Useable Capacity	USEABLE STORAGE This Year	USEABLE STORAGE Last Year	USEABLE STORAGE Average +
COLORADO	Lake Powell	25002.0	22605.0	22700.0	--
	Blue Mesa	829.5	664.6	598.0	--

PEAK FLOWS e

FORECAST POINT	PEAK FLOW (SECOND FEET) Forecast Range	PEAK FLOW (SECOND FEET) Average +
Coal Creek nr Cedar City	To Begin Feb. 1	220
Virgin nr Hurricane		1092

SNOW

DRAINAGE BASIN and/or SNOW COURSE NAME	THIS YEAR Date of Survey	THIS YEAR Snow Depth (Inches)	THIS YEAR Water Content (Inches)	PAST RECORD Water Content (Inches) Last Year	PAST RECORD Water Content (Inches) Average +
Birch Crossing	12/26	18	3.7	6.0	3.3b
Brian Head	1/3	46	12.8	13.4	8.7
Harris Flat	1/2	31	7.5	5.1	3.2
Kolob-Crystal	1/3	53	14.6	10.1	8.3a
Little Grassy	1/3	20	5.6	0.1	1.2b
Long Flat	1/3	18	4.6	3.1	2.6b

SNOW

DRAINAGE BASIN and/or SNOW COURSE NAME	THIS YEAR Date of Survey	THIS YEAR Snow Depth (Inches)	THIS YEAR Water Content (Inches)	PAST RECORD Water Content (Inches) Last Year	PAST RECORD Water Content (Inches) Average +
Long Valley Junction	1/2	27	6.7	3.8	1.9
SUSC Ranch	12/26	26	5.8	5.2	3.4b
Tall Poles	12/26	33	8.6	9.0	6.0b
Webster Flat	1/3	44	11.7	8.2	6.4
Yankee Reservoir	1/3	21	5.3	7.6	4.1b

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
Federal Bldg. - Room 4012
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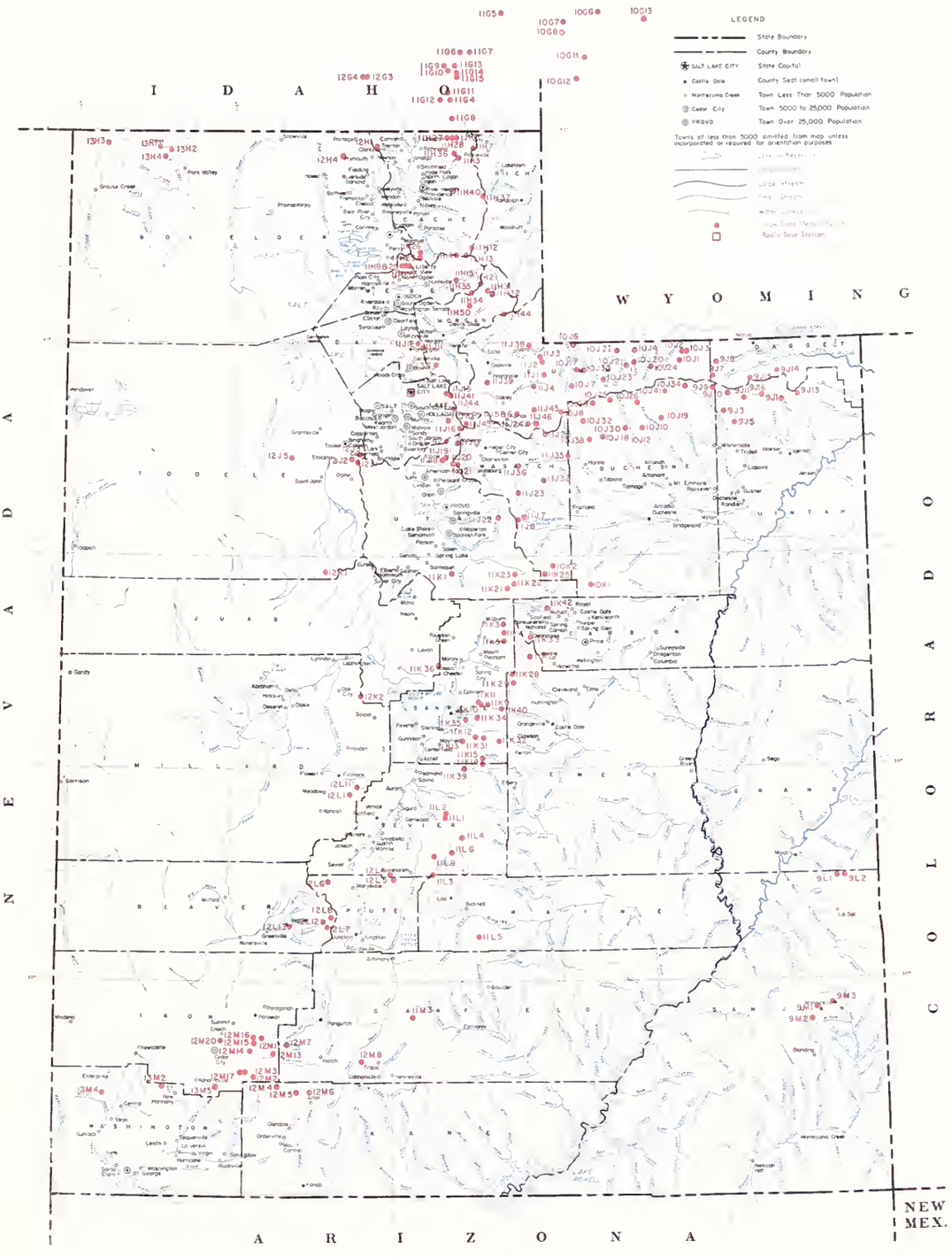

SNOW COURSES AND RELATED DATA MEASURING SITES

UTAH

1983

ALBERS EQUAL AREA PROJECTION

USGS National Atlas 1:4,000,000 Albers Equal-Area projection (1957) used as source for base map and adapted for SCS use.

USDA SCS-SNOW MAPS-1 (1-83) M7-OL-22027

INDEX TO UTAH, BEAR & UPPER COLORADO RIVER BASINS

GREAT BASIN DRAINAGE

Number	State	Name	Section	Township	Range	Elevation
		UPPER BEAR RIVER (above Harer, Idaho)				
[illegible]	[illegible]	[illegible]	7	27N	117W	8,700
[illegible]	[illegible]	[illegible]	19	3N	10E	7,900
[illegible]	[illegible]	[illegible]	9	29N	118W	7,500
[illegible]	[illegible]	[illegible]	25	1N	9E	9,400
[illegible]	[illegible]	[illegible] Ranger Station	13	26N	118W	8,200
[illegible]	[illegible]	Lily Lake	34	2N	10E	9,050
[illegible]	[illegible]	[illegible] R. S.	4	8N	4E	8,960
[illegible]	[illegible]	[illegible]	29	30N	116W	8,500
[illegible]	[illegible]	[illegible]	32	29N	118W	7,900
[illegible]	[illegible]	[illegible] Basin	15	29N	115W	8,400
[illegible]	[illegible]	[illegible]	32	2N	10E	8,550
		LOWER BEAR RIVER (below Harer, Idaho)				
[illegible]	[illegible]	[illegible] Lake	18	11N	5E	7,950
[illegible]	[illegible]	Christensen Ranch	27	13S	41E	5,600
[illegible]	[illegible]	Clarkston Mountain	29	14N	2W	6,300
[illegible]	[illegible]	Cub River Ranger Station	5	15S	41E	5,400
[illegible]	[illegible]	Dry Basin	30	13S	42E	7,900
[illegible]	[illegible]	Dry Creek Flat	31	13S	37E	6,350
[illegible]	[illegible]	Emigrant Summit	21	12S	42E	7,350
[illegible]	[illegible]	Emigration Canyon (mouth)	24	12S	42E	6,500
[illegible]	[illegible]	[illegible]	1	16S	41E	8,000
[illegible]	U	[illegible]	34 & 35	14N	4E	7,600
[illegible]	[illegible]	[illegible]	3	11N	3E	7,200
[illegible]	[illegible]	[illegible] Basin	31	13S	42E	8,000
[illegible]	[illegible]	[illegible] Narrows	10	14N	3E	7,400
[illegible]	[illegible]	Liberty Springs	7	13S	42E	8,240
[illegible]	[illegible]	Little Bear (lower)	16	8N	1E	6,000
[illegible]	[illegible]	Little Bear (upper)	22	8N	1E	6,550
[illegible]	[illegible]	[illegible] Mountain	32	13S	37E	6,800
[illegible]	[illegible]	[illegible]	15	10S	44E	7,225
[illegible]	[illegible]	[illegible] No. 1	[illegible]	14N	3E	[illegible]
[illegible]	[illegible]	[illegible] No. 2	9	14N	3E	[illegible]
[illegible]	[illegible]	Strawberry [illegible]	9	13S	41E	[illegible]
[illegible]	[illegible]	Strawberry [illegible] Divide	14	13S	41E	[illegible]
[illegible]	U	[illegible] Lake	[illegible]	13N	3E	[illegible]
[illegible]	U	[illegible] Ranger Station	11	13N	3E	[illegible]
[illegible]	[illegible]	[illegible] Flat	2	15S	41E	6,100
		RAFT RIVER				
[illegible]	[illegible]	Clear Creek Meadows	26	14N	14W	9,050
[illegible]	[illegible]	[illegible] Peak	4	13N	14W	[illegible]
[illegible]	[illegible]	[illegible] Summit	17	14N	14W	[illegible]
[illegible]	[illegible]	[illegible]	17	14N	17W	[illegible]
		OGDEN RIVER				
[illegible]	[illegible]	Beaver Creek Skunk Creek	22	8N	3E	[illegible]
[illegible]	[illegible]	[illegible] Peak	3	7N	1W	8,000
[illegible]	[illegible]	Ben Lomond Trail	2	7N	1W	6,000
[illegible]	[illegible]	[illegible] Dam	34	7N	[illegible]	5,500
[illegible]	[illegible]	[illegible]	19	8N	4E	[illegible]
[illegible]	[illegible]	[illegible] Peak	21	6N	4E	[illegible]
[illegible]	[illegible]	Sagebrush Flat	21	7N	[illegible]	[illegible]
		WEBER RIVER				
[illegible]	[illegible]	Beaver Creek R. S.	28	2S	7E	[illegible]
[illegible]	[illegible]	Chalk Creek No. 1	4	1N	8E	9,100
[illegible]	[illegible]	Chalk Creek No. 2	29	2N	8E	8,200
[illegible]	[illegible]	Chalk Creek No. [illegible]	7	2N	8E	7,500
[illegible]	[illegible]	East [illegible] Lake	6	2S	8E	[illegible]
[illegible]	[illegible]	Farmington Canyon (lower)	15	3N	1E	[illegible]
[illegible]	[illegible]	Farmington Canyon (upper)	23	3N	1E	[illegible]
[illegible]	[illegible]	[illegible] Canyon	29	5N	6E	7,400
[illegible]	[illegible]	[illegible]rabble	22	2N	2E	[illegible]
[illegible]	[illegible]	Horse Ridge	25	7N	4E	[illegible]
[illegible]	[illegible]	[illegible] Creek	20	6N	5E	[illegible]
[illegible]	[illegible]	Lost Creek	27	6N	5E	7,300
[illegible]	[illegible]	Park City Summit	30	2S	4E	[illegible]
[illegible]	[illegible]	Parley's Canyon Summit	5	1S	3E	7,500
[illegible]	[illegible]	Pine Canyon	6	5N	4E	8,000
[illegible]	[illegible]	Porcupine	22	3N	7E	[illegible]
[illegible]	[illegible]	Redden Mine (lower)	1	2S	6E	8,500
[illegible]	[illegible]	Sergeant Lakes	9	1N	6E	8,300
[illegible]	[illegible]	[illegible]th & Morehouse	25	1N	7E	7,600
		PROVO RIVER & UTAH LAKE				
[illegible]	[illegible]	Beaver Creek Divide	25	2S	7E	[illegible]
[illegible]	[illegible]	Camp Altamont	29	4S	3E	7,300
[illegible]	[illegible]	Clear Creek Ridge No. 1	18	11S	6E	9,200
[illegible]	[illegible]	Clear Creek Ridge No. 2	9	11S	6E	8,000
[illegible]	[illegible]	Clear Creek Ridge No. 3	27	10S	6E	6,600
[illegible]	U	[illegible]tchman R. S.	27	3S	3E	7,560
[illegible]	U	[illegible]ble Creek Summit	27	7S	5E	7,420
[illegible]	[illegible]	Lake Creek	36	4S	6E	9,000
[illegible]	U	Payson R. S.	30	10S	3E	8,050
[illegible]	[illegible]	Soapstone R. S.	9	3S	8E	7,800
[illegible]	[illegible]	South Fork R. S.	24	4S	2E	6,100
[illegible]	[illegible]	Timpanogos Cave Camp	27	4S	2E	5,500
[illegible]21PST	[illegible]	Timpanogos Divide	33	4S	3E	8,140
[illegible]8PST	[illegible]	Trial Lake	5	2S	9E	9,960

Number	State	Name	Section	Township	Range	Elevation
		JORDAN RIVER & GREAT SALT LAKE				
12J[illegible]	[illegible]	[illegible] Cabin	[illegible]	[illegible]	4W	6,450
12J5P	U	Deseret Peak	[illegible]	4S	[illegible]	9,250
11J41P	[illegible]	[illegible]	[illegible]	1S	3E	7,500
12J3P	U	[illegible]	8	4S	3W	7,000
11[illegible]44	[illegible]	[illegible] Creek	25	1S	2E	6,950
11J10	[illegible]	[illegible] South Fork	18	2S	3E	[illegible]
12J1PST	[illegible]	[illegible] Basin Settlement Canyon	[illegible]	4S	[illegible]	8,900
11J[illegible]P	[illegible]	[illegible] Lake	35	2S	3E	8,725
11[illegible]42	[illegible]	[illegible]	18	3S	3E	9,700
12K1PST	[illegible]	[illegible] Creek	[illegible]	[illegible]	5W	7,500
		UPPER SEVIER RIVER (South of Richfield, Utah)				
12L4PST	U	Box Creek	33	26S	2W	9,300
12M8	U	Bryce Canyon	36	36S	4W	8,000
12M13PST	U	Castle Valley	23	36S	8W	9,580
12M4P	U	Duck Creek R. S.	11	38S	8W	8,700
12M5PST	U	Harris Flat	24	38S	7W	7,700
11L9p	U	High-Top Mountain	36	25S	1E	11,400
12L6PST	U	Kimberly Mine	11	27S	[illegible]	9,300
12M2MPST	[illegible]	Midway Valley	26	37S	[illegible]	[illegible]
12M7P	U	[illegible] Lake	4 & [illegible]	[illegible]	[illegible]	[illegible]
12L[illegible]	U	[illegible]	[illegible]	[illegible]	[illegible]	9,100
		LOWER SEVIER RIVER				
11K13PST	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	8,000
11[illegible]PST	[illegible]	[illegible] Lake	34	[illegible]	[illegible]	9,600
11K11P	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	8,700
11K10P	[illegible]	[illegible]	[illegible]	[illegible]	4E	10,000
11L[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	8,000
11K[illegible]	[illegible]	[illegible] Creek	[illegible]	[illegible]	[illegible]	8,800
11K34	[illegible]	[illegible]	[illegible]	[illegible]	4E	9,600
11K1[illegible]P	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	9,500
12K[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	7,760
11K[illegible]9PST	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	9,000
12[illegible]PS	[illegible]	[illegible]	[illegible]	[illegible]	4W	8,700
11K[illegible]	[illegible]	[illegible] Flat	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	3W	[illegible]
11K[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
		BEAVER RIVER				
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	6,020
12L[illegible]PST	[illegible]	[illegible] Flat	[illegible]	[illegible]	4W	10,290
[illegible]	[illegible]	[illegible]	8	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible] Lake	17	[illegible]	[illegible]	9,600
		[illegible]				
12M[illegible]6	[illegible]	[illegible]	[illegible]	[illegible]	9W	8,100
12M14	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	10,000
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	8,800
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	8,700
		[illegible]				
[illegible]	[illegible]	[illegible] Creek	14	[illegible]	18W	6,100
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	14W	8,000
		[illegible]				
[illegible]	[illegible]	Cedar City [illegible]	[illegible]	[illegible]	11W	5,800
12M1[illegible]	[illegible]	[illegible]	[illegible]	37S	[illegible]	8,200

COLORADO RIVER DRAINAGE

Number	State	Name	Section	Township	Range	Elevation
		UPPER GREEN RIVER IN UTAH (above Duchesne River)				
9J11aP	[illegible]	[illegible]	[illegible]	[illegible]	19E	10,500
[illegible]J21P	[illegible]	[illegible]	[illegible]	2N	12E	9,300
[illegible]J22P	[illegible]	[illegible]	[illegible]	3N	12E	8,925
10J23a	[illegible]	[illegible] Pasture	[illegible]	1N	11E	9,700
9J14P	U	[illegible]	4	1N	20E	7,900
9J13P	U	[illegible]	8	1S	2E	8,500
[illegible]24ap	U	[illegible] Fork	[illegible]	2N	14E	10,000
[illegible]J4P	[illegible]	[illegible]	[illegible]	3N	13E	9,500
9J[illegible]P	[illegible]	[illegible] Park	[illegible]	2N	17E	9,100
9J1[illegible]	[illegible]	[illegible]	24	1N	19E	10,250
10J1	[illegible]	[illegible]-the-Rock	13	2N	15E	9,150
10J3	U	Hole-in-the-Rock G[illegible]	2	3N	16E	8,300
9J1PST	U	King's Cabin (upper)	22	1S	21E	8,730
10J2	[illegible]	Middle Beaver Creek	31	3N	16E	8,650
9J10aP	[illegible]	[illegible] Park	9	1S	18E	10,400
9J[illegible]P	U	[illegible] Lake	10	1N	17E	10,300
10J20PST	U	Steel [illegible] Park	17	2N	13E	10,100
9J16PST	U	Trout Creek	9	1S	20E	9,400

Number	State	Name	Section	Township	Range	Elevation
		DUCHESNE RIVER				
10J41ap	U	Atwood Lake	13	4N	4W	10,840
10J30PST	U	Brown Duck Ridge	8	2N	6W	10,600
9J9PST	U	Chepeta-Whiterocks Lakes	3	4N	1W	10,350
11J32MPST	U	Currant Creek	26	1S	11W	8,000
11J23MPST	U	Daniels-Strawberry Summit	20	2S	12W	8,000
11J7P	U	East Portal	36	7S	6E	7,560
10J26PST	U	Five Point Lake	28	4N	5W	11,000
10K1PST	U	Indian Canyon	2	11S	10E	9,100
10J19P	U	Jackson Park	25	3N	4W	10,600
10J34p	U	Kidney Lake	28	5N	3W	11,000
10J25PST	U	Lakefork Basin	13	4N	7W	11,100
10J10PST	U	Lakefork Mountain	2 & 3	2N	5W	10,200
10J12	U	Lakefork Mountain No. 3	20	2N	4W	8,400
10J29PST	U	Lightning Lake	23	4N	8W	10,500
9J5PST	U	Mosby Mountain	33	3N	1E	9,500
9J3P	U	Paradise Park	7	3N	1E	10,100
10J18PST	U	Rock Creek	21	2N	7W	7,900
10J32p	U	Shadow Lake	29	3N	8W	10,150
11J8PST	U	Strawberry Divide	2	4S	12W	8,400
11J35P	U	West Fork of the Duchesne	22	1N	11W	9,480
		PRICE RIVER				
11K42P	U	Dry Valley Divide Alternate	14	11S	7E	8,100
11K33MP	U	Mud Creek	4	14S	7E	8,600
10K2MPST	U	White River No. 1	11	10S	8E	8,550
11K25	U	White River No. 3	30	10S	8E	7,400
		SAN RAFAEL RIVER				
11K31PST	U	Buck Flat	23	19S	4E	9,400
11K4	U	Gooseberry Reservoir	25	13S	5E	8,700
11K5P	U	Huntington-Horseshoe	12	14S	5E	9,800
11K40P	U	Orange Olsen	31	17S	6E	7,200
11K28PST	U	Red Pine Ridge	5	16S	6E	9,200
11K9PST	U	Seeley Creek	25	17S	4E	10,000
11K27P	U	Stuart R. S.	8	15S	7E	7,950
11K29	U	Upper Joe's Valley	21	16S	6E	8,900
11K32	U	Wrigley Creek	27	19S	5E	9,000
		MUDOY RIVER				
11K14	U	Black's Fork	24	20S	4E	9,200
11K15PST	U	Gill's Camp	27	20S	4E	9,200
		FREMONT RIVER				
11L4PST	U	Black's Flat-U. M. Creek	33	24S	3E	9,400
11L5	U	Donkey Reservoir	9	30S	4E	9,800
11L3P	U	Fish Lake	35	26S	1E	8,700
11L6	U	Johnson Valley	24	25S	2E	8,850
		SOUTHEASTERN UTAH DRAINAGES				
9M1P	U	Buckboard Flat	36	33S	22E	9,000
9M2P	U	Camp Jackson	22	34S	22E	8,600
9L1	U	LaSal Mountain	5	27S	24E	8,800
9L2PSTT	U	LaSal Mountain (Upper)	3	27S	24E	9,850
9M3	U	Monticello Park	25	33S	23E	7,050
		ESCALANTE RIVER				
11M3PST	U	Widtsoe-Escalante No. 3	22	34S	1W	9,500
		VIRGIN RIVER				
13M5PST	U	Kolob-Crystal	2	38S	11W	9,250
12M6	U	Long Valley Junction	22	38S	6W	7,500
12M3MPST	U	Webster Flat	20	37S	9W	9,200

LEGEND

Numbering System (example)

10J7	Snow Course Only.
10J7P	Snow Course and Precipitation Gage.
10J7M	Snow Course and Soil Moisture Station.
10J7A	Snow Course and Aerial Marker.
10J7MA	Snow Course, Soil Moisture Station and Aerial Marker.
10J7MP	Snow Course, Soil Moisture Station and Precipitation Gage.
10J7a	Aerial Marker Only.
10J7p	Storage Precipitation Gage Only.
10J7PS	Snow Course, Precipitation Gage, Snow Pillow and Temperature.
10J7PST	Snotel Data Site.

Agencies Cooperating in Utah Snow Surveys

U. S. GOVERNMENT AGENCIES

- U. S. Department of Agriculture
  - Soil Conservation Service
  - Forest Service
- U. S. Department of Commerce
  - NOAA, National Weather Service
- U. S. Department of Interior
  - Bureau of Reclamation
  - Geological Survey
  - National Park Service

STATE AGENCIES

- Utah State University
- Utah State Department of Natural Resources
  - Division of Wildlife Resources
  - Division of Water Resources
  - Division of Water Rights
  - Bear River Commissioner
  - Price River Commissioner
  - Provo River Commissioner
  - Sevier River Commissioners
  - Spanish Fork River Commissioner
  - Utah Lake and Jordan River Commissioner

MUNICIPALITIES

- Manti
- Salt Lake City

ORGANIZED PUBLIC AGENCIES

- Beaver River Water Users Association
- Board of Canal Presidents - Jordan River
- Central Utah Conservancy District
- Emery Canal and Reservoir Company
- Moon Lake Water Users Association
- Ogden River Water Users Association
- Provo River Water Users Association
- Strawberry Water Users Association
- Sevier River Water Users Association
- Weber River Water Users Association
- Weber Basin Conservancy District

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